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JUL 2 2004

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Subject:

Request for Class 2 Permit Modification to the Hazardous Waste Facility

Permit, No. NM4890139088-TSDF, Procedure for Consideration of Tank

Waste

Dear Mr. Zappe:

This is a request for a Class 2 permit modification to the Hazardous Waste Facility Permit (No. NM4890139088-TSDF) for the Waste Isolation Pilot Plant (WIPP). This request is submitted by the U.S. Department of Energy and Washington TRU Solutions, LLC pursuant to 20 New Mexico Administrative Code (NMAC) 4.1.900 (incorporating 40 CFR § 270.41 and § 270.42). The proposed change does not compromise worker safety, human health, or the environment.

This permit modification request (PMR), "Procedure for Consideration of Tank Waste," is submitted in accordance with the June 3, 2004, *Order on Joint Motion to Hold Proceeding in Abeyance,* issued by the New Mexico Environment Department's (NMED's) Hearing Officer.

We certify under penalty of law that this document and all attachments were prepared under our direction or supervision according to a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on our inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of our knowledge and belief, true, accurate, and complete. We are aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sincerely,

R. Paul Detwiler, Acting Manager

U.S. Department of Energy

Steve Warren, General Manager Washington TRU Solutions, LLC

Steve Drane

Enclosure

040705

Mr. Steve Zappe

cc: w/enclosure

J. Bearzi, NMED

J. Kieling, NMED C. Noble, NMED T. Hughes, NMED CBFO M&RC

Class 2 Permit Modification Request

Procedure for Consideration of Tank Waste

Waste Isolation Pilot Plant Carlsbad, New Mexico

WIPP HWFP No. NM489013908-TSDF

July 2, 2004

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Acronyms and Abbreviations

CFR Code of Federal Regulations DOE U.S. Department of Energy

EPA U.S. Environmental Protection Agency
HWFP Hazardous Waste Facility Permit
NMAC New Mexico Administrative Code
NMED New Mexico Environment Department

PCB polychlorinated biphenyl PMR Permit Modification Request

TRU Transuranic

WAP Waste Analysis Plan
WIPP Waste Isolation Pilot Plant

WTS Washington TRU Solutions, LLC

Overview of the Permit Modification Request

This document contains one Class 2 Permit Modification Request (**PMR**) for the Hazardous Waste Facility Permit (**HWFP**) of the Waste Isolation Pilot Plant (**WIPP**), Permit Number NM4890139088-TSDF, hereinafter referred to as the WIPP HWFP.

This PMR is submitted by the U.S. Department of Energy (**DOE**) and Washington TRU Solutions, LLC (**WTS**), collectively referred to as the Permittees, in accordance with the WIPP HWFP, Condition I.B.1 (20.4.1.900 New Mexico Administrative Code (**NMAC**) incorporating Section 270.42(b) of Title 40 of the Code of Federal Regulations (**CFR**)). If this PMR were approved, the HWFP would contain a procedure for consideration of TRU mixed waste from tanks that has ever been managed as high-level waste. The PMR will prohibit the acceptance and disposal of such wastes at the WIPP facility unless they are approved for disposal through a subsequent Class 3 permit modification. These changes do not reduce the ability of WIPP to protect human health and the environment.

The proposed modifications to the text of the WIPP HWFP have been identified using a <u>double underline</u> for added information, and a <u>strikeout</u> font for deleted information. All direct quotations are indicated by italicized text. The following information demonstrates compliance with the WIPP HWFP requirement, Permit Condition I.B.1, for submission of this Class 2 PMR.

1. 20.4.1.900 NMAC (incorporating 40 CFR § 270.42(b)(1)(i)) requires the applicant to describe the exact change to be made to the permit conditions and supporting documents referenced by the permit.

This PMR would establish a procedure for approval of the disposal of transuranic (**TRU**) mixed waste from tanks that has ever been managed as high-level waste by adding language to Section II.C.3, Section B-1c, and Table B6-1 of the WIPP HWFP. The proposed conditions would prohibit WIPP from accepting TRU mixed waste from tanks that has ever been managed as high-level waste unless it is approved for WIPP disposal through a Class 3 permit modification. A brief description of the proposed changes to each HWFP section is provided in Table 1 of Attachment A to this PMR. The proposed changes to the WIPP HWFP are included in Section 1 of this PMR.

2. 20.4.1.900 NMAC (incorporating 40 CFR § 270.42(b)(1)(ii)) requires the applicant to identify that the modification is a Class 2 modification.

This PMR is submitted as a Class 2 modification because it does not involve any changes that substantially alter the WIPP facility or its operations, 20.4.1.900 NMAC (incorporating 40 CFR § 270.42(d)). This PMR proposes only to add conditions to the HWFP and the WIPP Waste Analysis Plan (**WAP**) that would prohibit the disposal of TRU mixed waste from tanks that has ever been managed as high-level waste unless such waste is approved for disposal at WIPP by NMED pursuant to a subsequent Class 3 permit modification.

This Class 2 PMR adds a procedure for consideration of TRU mixed waste from tanks that has ever been managed as high-level waste to the general permit provisions and the WIPP WAP. This procedural change falls within Item B.1.d. of Appendix I of 40 CFR § 270.42, which classifies such changes as Class 2. This modification is similar to the Class 2 PMR related to polychlorinated biphenyl (**PCB**) waste that the Permittees submitted in May 2003. That PMR was approved as a Class 2 modification pursuant to Item B.1.d. In the PCB PMR, the Permittees proposed to change the same permit sections as in this PMR: Section II.C.3 of Module II, Section B-1c of the WAP, and Table B6-1 of Attachment B6 to the HWFP. The New Mexico Environment Department (**NMED**) considered and approved the PCB-related permit changes under the Class 2 process.

This PMR is also classified as a Class 2 PMR in accordance with the general principles set forth in the preamble to the U.S. Environmental Protection Agency (**EPA**) notice promulgating the permit modification procedures codified at 40 CFR § 270.42.¹ EPA's final rule establishes the principle that Class 2 procedures are appropriate for changes that do not substantially alter a facility or its operations.

Pursuant to the proposed procedural changes, the Permittees would be prohibited from accepting TRU mixed waste from tanks that has ever been managed as high-level waste unless the waste is approved for WIPP disposal through a subsequent Class 3 permit modification. Any such Class 3 PMR would include specific information on the waste and its origin, and the PMR would be subject to the public participation requirements of 20.4.1.900(B) NMAC.

3. 20.4.1.900 NMAC (incorporating 40 CFR § 270.42(b)(1)(iii)) requires the applicant to explain why the modification is needed.

In November 2003, NMED published a Public Notice and Fact Sheet announcing its intent to approve a permit modification it had developed that would limit waste eligible for disposal at WIPP to an inventory developed when the permit was originally issued.²

At the Permittees' request, NMED scheduled a public hearing on its proposed modification. On June 2, 2004, NMED and the Permittees filed a Joint Motion with the Hearing Officer requesting that the public hearing on NMED's permit modification be held in abeyance to allow the Permittees time to submit, and NMED to consider this PMR, which would supplant NMED's proposed permit modification. On June 3, 2004, the Hearing Officer issued an Order granting the Joint Motion. This PMR is submitted in compliance with the Hearing Officer's Order.

4. 20.4.1.900 NMAC (incorporating 40 CFR § 270.42 (b)(1)(iv)) requires the applicant to provide the applicable information required by 40 CFR §§ 270.13 through 270.21, 270.62 and 270.63.

Permit Modifications for Hazardous Waste Management Facilities, Final Rule, September 28, 1988, 53 FR 37912.

² <u>Public Notice No. 03-12</u>, Notice of Public Comment Period and Public Hearing Concerning Intent to Approve an Agency Initiated Modification to the Hazardous Waste Facility Permit for the Waste Isolation Pilot Plant, Carlsbad, New Mexico, EPA I.D. No. NM4890139088, New Mexico Environment Department, November 26, 2003.

The regulatory crosswalk describes those portions of the WIPP HWFP that would be altered by this PMR. Where applicable, regulatory citations in this modification reference Title 20, Chapter 4, Part 1, NMAC, revised October 1, 2003, incorporating 40 CFR Parts 264 and 270. Sections 270.16 through 270.22, 270.62, 270.63 and 270.66 of Title 40 of the CFR are not applicable to the WIPP. Consequently, they are not listed in the regulatory crosswalk.

5. 20.4.1.900 NMAC (incorporating 40 CFR § 270.11(d)(1) and 40 CFR § 270.30(k)) requires any person signing under paragraph a and b must certify the document in accordance with 20.4.1.900 NMAC.

The transmittal letter for this PMR contains the signed certification statement in accordance with Module I.F of the WIPP HWFP.

Regulatory Crosswalk

Regulatory Citation(s)	Regulatory Citation(s)	Tregulatery Greecwank	Added or Clarified Information		
20.4.1.900 NMAC (incorporating 40 CFR Part 270)	20.4.1.500 NMAC (incorporating 40 CFR Part 264)	500 NMAC Description of Requirement porating 40		Yes	No
§ 270.13		Contents of Part A permit application	Attachment O, Part A		
§ 270.14(b)(1)		General facility description	Attachment A		
§ 270.14(b)(2)	§ 264.13(a)	Chemical and physical analyses	Attachment B		\ \ \ \
§ 270.14(b)(3)	§ 264.13(b)	Development and implementation of waste analysis plan	Module II, Attachment B	√	
	§ 264.13(c)	Off-site waste analysis requirements	Module II, Attachment B	√	
§ 270.14(b)(4)	§ 264.14(a-c)	Security procedures and equipment	Attachment C		\ \ \ \ \
§ 270.14(b)(5)	§ 264.15(a-d)	General inspection requirements	Attachment D		
	§ 264.174	Container inspections	Attachment D		
§ 270.23(a)(2)	§ 264.602	Miscellaneous units inspections	Attachment D		
§ 270.14(b)(6)		Request for waiver from preparedness and prevention requirements of Part 264 Subpart C	NA		
§ 270.14(b)(7)	264 Subpart D	Contingency plan requirements	Attachment F		
	§ 264.51	Contingency plan design and implementation	Attachment F		/
	§ 264.52 (a) & (c-f)	Contingency plan content	Attachment F		√
	§ 264.53	Contingency plan copies	Attachment F		
	§ 264.54	Contingency plan amendment	Attachment F	-	√
	§ 264.55	Emergency coordinator	Attachment F		/
	§ 264.56	Emergency procedures	Attachment F		\ \ \
§ 270.14(b)(8)		Description of procedures, structures or equipment for:	Attachment E		/
§ 270.14(b)(8) (i)		Prevention of hazards in unloading operations (e.g., ramps and special forklifts)	Attachment E		
§ 270.14(b)(8)		Runoff or flood prevention (e.g., berms, trenches, and dikes)	Attachment E		
§ 270.14(b)(8) (iii)	·	Prevention of contamination of water supplies	Attachment E		√

Regulatory Citation(s)	Regulatory Citation(s)		Added or Clarified Information			
20.4.1.900 NMAC (incorporating 40 CFR Part 270)	20.4.1.500 NMAC (incorporating 40 CFR Part 264)	Description of Requirement	Section of the HWFP or Permit Yes Application		No .	
§ 270.14(b)(8) (iv)		Mitigation of effects of equipment failure and power outages	Attachment E			
§ 270.14(b)(8) (v)		Prevention of undue exposure of personnel (e.g., personal protective equipment)	Attachment E			
§ 270.14(b)(8) (vi) § 270.23(a)(2)	§ 264.601	Prevention of releases to the atmosphere	Module II Module IV Attachment M2 Attachment N		√	
	264 Subpart C	Preparedness and prevention	Attachment E		✓	
	§ 264.31	Design and operation of facility	Attachment E			
	§ 264.32	Required equipment	Attachment E Attachment F			
	§ 264.33	Testing and maintenance of equipment	Attachment D			
	§ 264.34	Access to communication/alarm system	Attachment E			
-	§ 264.35	Required aisle space	Attachment E			
	§ 264.37	Arrangements with local authorities	Attachment F			
§ 270.14(b)(9)	§ 264.17(a-c)	Prevention of accidental ignition or reaction of ignitable, reactive, or incompatible wastes	Attachment E			
§ 270.14(b)(10)		Traffic pattern, volume, and controls, for example: Identification of turn lanes Identification of traffic/stacking lanes, if appropriate Description of access road surface Description of access road load- bearing capacity Identification of traffic controls	Attachment G		√	
§ 270.14(b)(11)(i) and (ii)	§ 264.18(a)	Seismic standard applicability and requirements	Part B, Rev. 6 Chapter B		√	
§ 270.14(b)(11) (iii-v)	§ 264.18(b)	100-year floodplain standard	Part B, Rev. 6 Chapter B		✓	
	§ 264.18(c)	Other location standards	Part B, Rev. 6 Chapter B		√	
§ 270.14(b)(12)	§ 264.16(a-e)	Personnel training program	Attachment H			
§ 270.14(b)(13)	264 Subpart G	Closure and post-closure plans	Attachment I & J			

Regulatory Citation(s)	Regulatory Citation(s)		Added or Clarified Information		
20.4.1.900 NMAC (incorporating 40 CFR Part 270)	20.4.1.500 NMAC (incorporating 40 CFR Part 264)	Description of Requirement	Section of the HWFP or Permit Application	Yes	No
§ 270.14(b)(13)	§ 264.111	Closure performance standard	Attachment I		
§ 270.14(b)(<u>1</u> 3)	§ 264.112(a) (b)	Written content of closure plan	Attachment I		
§ 270.14(b)(13)	§ 264.112(c)	Amendment of closure plan	Attachment I		
§ 270.14(b)(13)	§ 264.112(d)	Notification of partial and final closure	Attachment I		
§ 270.14(b)(13)	§ 264.112(e)	Removal of wastes and decontamination/dismantling of equipment	Attachment I	-	
§ 270.14(b)(13)	§ 264.113	Time allowed for closure	Attachment I		
§ 270.14(b)(13)	§ 264.114	Disposal/decontamination	Attachment I		
§ 270.14(b)(13)	§ 264.115	Certification of closure	Attachment I	1	
§ 270.14(b)(13)	§ 264.116	Survey plat	Attachment I		
§ 270.14(b)(13)	§ 264.117	Post-closure care and use of property	Attachment J		
§ 270.14(b)(13)	§ 264.118	Post-closure plan; amendment of plan	Attachment J		
§ 270.14(b)(13)	§ 264.178	Closure/containers	Attachment I		
§ 270.14(b)(13)	§ 264.601	Environmental performance standards-Miscellaneous units	Attachment I		
§ 270.14(b)(13)	§ 264.603	Post-closure care	Attachment I		1
§270.14(b)(14)	§ 264.119	Post-closure notices	Attachment J		<i>J</i>
§ 270.14(b)(15)	§ 264.142	Closure cost estimate	NA ·		\ \ \ \
	§ 264.143	Financial assurance	NA		\ \ \ \
§ 270.14(b)(16)	§ 264.144	Post-closure cost estimate	NA		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
·	§ 264.145	Post-closure care financial assurance	. NA		
§ 270.14(b)(17)	§ 264.147	Liability insurance	NA		\ \ \
§ 270.14(b)(18)	§ 264.149-150	Proof of financial coverage	NA		v
§ 270.14(b)(19)(i), (vi), (vii), and (x)		Topographic map requirements, Map scale and date, Map orientation, Legal boundaries, Buildings Treatment, storage, and disposal operations, Run-on/run-off control systems, Fire control facilities	Attachment O Part A Part B, Rev. 6 Chapter B, E		√

Regulatory Citation(s)	Regulatory Citation(s)		Added or Clarified I	ded or Clarified Information		
20.4.1.900 NMAC (incorporating 40 CFR Part 270)	20.4.1.500 NMAC (incorporating 40 CFR Part 264)	Description of Requirement	Section of the HWFP or Permit Application	Yes	No	
§ 270.14(b)(19)(ii)	§ 264.18(b)	100-year floodplain	Attachment O Part A Part B, Rev. 6 Chapter B, E		√	
§ 270.14(b)(19)(iii)		Surface waters	Attachment O Part A Part B, Rev. 6 Chapter B, E		✓	
§ 270.14(b)(19)(iv)		Surrounding land use	Attachment O Part A Part B, Rev. 6 Chapter B, E		✓	
§ 270.14(b)(19)(v)		Wind rose	Attachment O Part A Part B, Rev. 6 Chapter B, E		√	
§ 270.14(b)(19)(viii)	§ 264.14(b)	Access controls	Attachment O Part A Part B, Rev. 6 Chapter B, E, F		✓	
§ 270.14(b)(19)(ix)		Injection and withdrawal wells	Attachment O Part A Part B, Rev. 6 Chapter B, E, F		√.	
§ 270.14(b)(19)(xi)		Drainage on flood control barriers	Part B, Rev. 6 Chapter B, E, F		\ \ \	
§ 270.14(b)(19)(xii)		Location of operational units	Part B, Rev. 6 Chapter B		j	
§ 270.14(b)(20)		Other federal laws Wild and Scenic Rivers Act National Historic Preservation Act Endangered Species Act Coastal Zone Management Act Fish and Wildlife Coordination Act Executive Orders	Part B, Rev. 6 Chapter K		√	
§ 270.15	§ 264 Subpart I	Containers	Attachment M1			
	§ 264.171	Condition of containers	Attachment M1		1	
	§ 264.172	Compatibility of waste with containers	Attachment M1		· V	
	§ 264.173	Management of containers	Attachment M1		√	
	§ 264.174	Inspections	Attachment D Attachment M1		✓	
§ 270.15(a)	§ 264.175	Containment systems	Attachment M1		, , , , , , , , , , , , , , , , , , ,	
§ 270.15(c)	§ 264.176	Special requirements for ignitable or reactive waste	Attachment E Permit Module II		√	
§ 27015(d)	§ 264.177	Special requirements for incompatible wastes	Attachment E Permit Module II		· √	
	§ 264.178	Closure	Attachment I			
§ 270.15(e)	§ 264.179	Air emission standards	Attachment E Attachment N		√	
§ 270.23	264 Subpart X	Miscellaneous units	Module IV, Attachment M2		√	
§ 270.23(a)	§ 264.601	Detailed unit description	Module, IV, Attachment M2			

Regulatory Citation(s)	Regulatory Citation(s)		Added or Clarified Information		
20.4.1.900 NMAC (incorporating 40 CFR Part 270)	20.4.1.500 NMAC (incorporating 40 CFR Part 264)	Description of Requirement	Section of the HWFP or Permit Application	Yes	No
§ 270.23(b)	§ 264.601	Hydrologic, geologic, and meteorologic assessments	Permit Module IV Attachment M2		√
§ 270.23(c)	§ 264.601	Potential exposure pathways	Permit Module IV Attachment M2 Attachment N		√
§ 270.23(d)		Demonstration of treatment effectiveness	Permit Module IV Attachment M2 Attachment N		√
	§ 264.602	Monitoring, analysis, inspection, response, reporting, and corrective action	Permit Module IV Attachment M2 Attachment N		√
	§ 264.603	Post-closure care	Attachment J Attachment J1		√
	264 Subpart E	Manifest system, record keeping, and reporting	Permit Module I Permit Module II Permit Module IV Attachment B		√

Attachment A

Description of the Class 2 Permit Modification Request

Table 1. Class 2 Hazardous Waste Facility Permit Modification

Affected Permit Section	Explanation of Changes
II.C.3	New permit condition establishing a procedure for consideration of TRU mixed waste from tanks that has ever been managed as high-level waste by prohibiting the acceptance and disposal at WIPP of TRU mixed waste from tanks that has ever been managed as high-level waste unless the waste has been approved through a subsequent Class 3 permit modification.
B-1c	Change to the Waste Analysis Plan establishing a procedure for consideration of TRU mixed waste from tanks that has ever been managed as high-level waste by prohibiting the acceptance and disposal at WIPP of TRU mixed waste from tanks that has ever been managed as high-level waste unless the waste has been approved through a subsequent Class 3 permit modification.
B6, Table B6-1	Change to Table B6-1, Waste Analysis Plan Checklist, to prohibit TRU mixed waste from tanks that has ever been managed as highlevel waste unless the waste has been approved through a subsequent Class 3 permit modification.

1.0 Revised Permit Text

1.1 Proposed Changes to Section II.C.3 of Module II

II.C.3. Treatment, Storage, and Disposal Facility Waste Acceptance Criteria (TSDF-WAC)

The Permittees shall not accept TRU mixed wastes at WIPP for storage, management, or disposal which fail to meet the treatment, storage, and disposal facility waste acceptance criteria as presented in Permit Conditions II.C.3.a through II.C.3.kl of this Permit.

- II.C.3.a. <u>Liquids</u> liquid waste is not acceptable at WIPP. Waste shall contain as little residual liquid as is reasonably achievable by pouring, pumping and/or aspirating, and internal containers shall contain less than 1 inch or 2.5 centimeters of liquid in the bottom of the container. Total residual liquid in any payload container (e.g., 55-gallon drum, standard waste box, etc.) may not exceed 1 percent volume of that container.
- II.C.3.b. <u>Pyrophoric materials</u> non-radionuclide pyrophoric materials, such as elemental potassium, are not acceptable at WIPP.
- II.C.3.c. Non-mixed hazardous wastes hazardous wastes not occurring as cocontaminants with TRU wastes (non-mixed hazardous wastes) are not acceptable at WIPP.
- II.C.3.d. <u>Chemical incompatibility</u> wastes incompatible with backfill, seal and panel closures materials, container and packaging materials, shipping container materials, or other wastes are not acceptable at WIPP.
- II.C.3.e. <u>Explosives and compressed gases</u> wastes containing explosives or compressed gases are not acceptable at WIPP.
- II.C.3.f. PCB waste wastes with polychlorinated biphenyls (PCBs) not authorized under an EPA PCB waste disposal authorization are not acceptable at WIPP.
- II.C.3.g. <u>Ignitable, corrosive, and reactive wastes</u> wastes exhibiting the characteristic of ignitability, corrosivity, or reactivity (EPA Hazardous Waste Numbers of D001, D002, or D003) are not acceptable at WIPP.
- II.C.3.h. Remote-handled transuranic waste remote-handled (RH) TRU mixed waste (waste with a surface dose rate of 200 millirem per hour or greater) is not acceptable at WIPP.
- II.C.3.i. Tank waste TRU mixed wastes from tanks that has ever been managed as high-level waste is not acceptable at WIPP unless specifically approved through a subsequent Class 3 permit modification. Such wastes are listed in Table II.C.3.i below.

	Table II.C.3.i - Additional Approved Tank Waste Streams				
Date Class 3 Modification F Submitted	~~~~	Description of Wastes			
II.C.3.iį	not have	ce gas sampling and analysis - any waste container that does VOC concentration values reported for the headspace is not le at WIPP.			
II.C.3. j <u>k</u> .	Radiogra	phic / visual examination - any waste container which has not			

II.C.3.kl.

<u>Waste stream profiles</u> - any waste container from a waste stream which has not been preceded by an appropriate, certified Waste Stream Profile Form (Attachment B, Figure B-1) is not acceptable at WIPP.

undergone either radiographic or visual examination is not acceptable at

1.2 Proposed Changes to Section B-1c of HWFP Attachment B

B-1c Waste Prohibited at the WIPP Facility

WIPP.

The following TRU mixed waste are prohibited at the WIPP facility:

- liquid waste (waste shall contain as little residual liquid as is reasonably achievable by pouring, pumping and/or aspirating, and internal containers shall contain less than 1 inch or 2.5 centimeters of liquid in the bottom of the container. Total residual liquid in any payload container (e.g., 55 gallon drum or standard waste box) may not exceed 1 percent volume of that container. Payload containers with U134 waste shall have no detectable liquid)
- non-radionuclide pyrophoric materials, such as elemental potassium
- hazardous wastes not occurring as co-contaminants with TRU mixed wastes (non-mixed hazardous wastes)
- wastes incompatible with backfill, seal and panel closures materials, container and packaging materials, shipping container materials, or other wastes
- wastes containing explosives or compressed gases
- wastes with polychlorinated biphenyls (PCBs) not authorized under an EPA PCB waste disposal authorization
- wastes exhibiting the characteristic of ignitability, corrosivity, or reactivity (EPA Hazardous Waste Numbers of D001, D002, or D003)
- RH TRU mixed waste (waste with a surface dose rate of 200 millirem per hour or greater)

- any waste container that does not have VOC concentration values reported for the headspace
- any waste container which has not undergone either radiographic or visual examination
- any waste container from a waste stream which has not been preceded by an appropriate, certified WSPF (see Section B-1d)
- waste from tanks that has ever been managed as high-level waste unless specifically approved through a subsequent Class 3 permit modification

Before accepting a container holding TRU mixed waste, the Permittees will ensure, through audit and as part of their Permittee-level data reviews (Section B3-10c), that generator/storage sites examine the radiography or visual examination data records (Section B-4b) to verify that the container holds no unvented compressed gas containers and that residual liquid does not exceed 1 percent volume in any payload container. If discrepancies or inconsistencies are detected during the data review, the generator/storage site will review the radiography video tape or visual examination tape to verify that the observed physical form of the waste is consistent with the waste stream description provided by the generator and to ensure that no prohibited items are present in the waste. Radiography tapes will be selected randomly from at least one percent of containers received at WIPP and will be reviewed and compared to radiographic data forms. (Note that for radiography tapes containing classified information, review of radiography tapes will be conducted by the Permittees at a secure location other than WIPP. The records generated from the Permittee's review of radiography tapes will be sent to WIPP for inclusion in the Operating Record, while the original tape will be maintained at another secure location.) All personnel who review radiography video tapes will be trained to the same standard as radiography operators. Section B-4 includes a description of the waste verification process that the Permittees will conduct prior to receiving a shipment at the WIPP facility. Containers are vented through filters, allowing any gases that are generated by radiolytic and microbial processes within a waste container to escape, thereby preventing over pressurization or development of conditions within the container that would lead to the development of ignitable, corrosive, reactive, or other characteristic wastes.

To ensure the integrity of the WIPP facility, waste streams identified to contain incompatible materials or materials incompatible with waste containers cannot be shipped to WIPP unless they are treated to remove the incompatibility. Only those waste streams that are compatible or have been treated to remove incompatibilities will be shipped to WIPP.

The VOC concentrations in the headspace of waste containers have been limited to those which when averaged on a room basis, will ensure compliance with the performance standards. These limits are presented in Table B-2 as maximum allowable VOC room-averaged headspace concentration limits. There are no maximum allowable headspace gas concentration limits for individual containers, as some containers can exceed these values as long as container headspace averages in a disposal room do not.

1.3 Proposed Changes to Table B6-1 of HWFP Attachment B6

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12	Are procedures in place to ensure that the generator/storage site ensures, through administrative and operational procedures and characterization techniques, that waste containers do not include the following unacceptable waste:
	 liquid waste (waste shall contain as little residual liquid as is reasonably achievable by pouring, pumping and/or aspirating, and internal containers shall contain less than 1 inch or 2.5 centimeters of liquid in the bottom of the container. Total residual liquid in any payload container may not exceed 1 percent volume of that container. Payload containers with U134 waste shall have no detectable liquid)
	non-radionuclide pyrophoric materials
	hazardous wastes not occurring as co-contaminants with TRU wastes (non-mixed hazardous wastes)
	 wastes incompatible with backfill, seal and panel closures materials, container and packaging materials, shipping container materials, or other wastes
	 wastes containing explosives or compressed gases (continued below)
12a	wastes with polychlorinated biphenyls (PCBs) not authorized under an EPA PCB waste disposal authorization
	 wastes exhibiting the characteristic of ignitability, corrosivity, or reactivity (EPA Hazardous Waste Numbers of D001, D002, or D003)
	RH TRU mixed waste (waste with a surface dose rate of 200 millirem per hour or greater)
	any waste container that does not have VOC concentration values reported for the headspace
	any waste container which has not undergone either radiographic or visual examination
	any waste container from a waste stream which has not been preceded by an appropriate, certified Waste Stream Profile Form (see Section B-1d)
	TRU mixed wastes from tanks that has ever been managed as high-level waste and that has not been approved through a subsequent Class 3 permit modification and listed in Table II.3.i of Module II
	(Section B-1c)